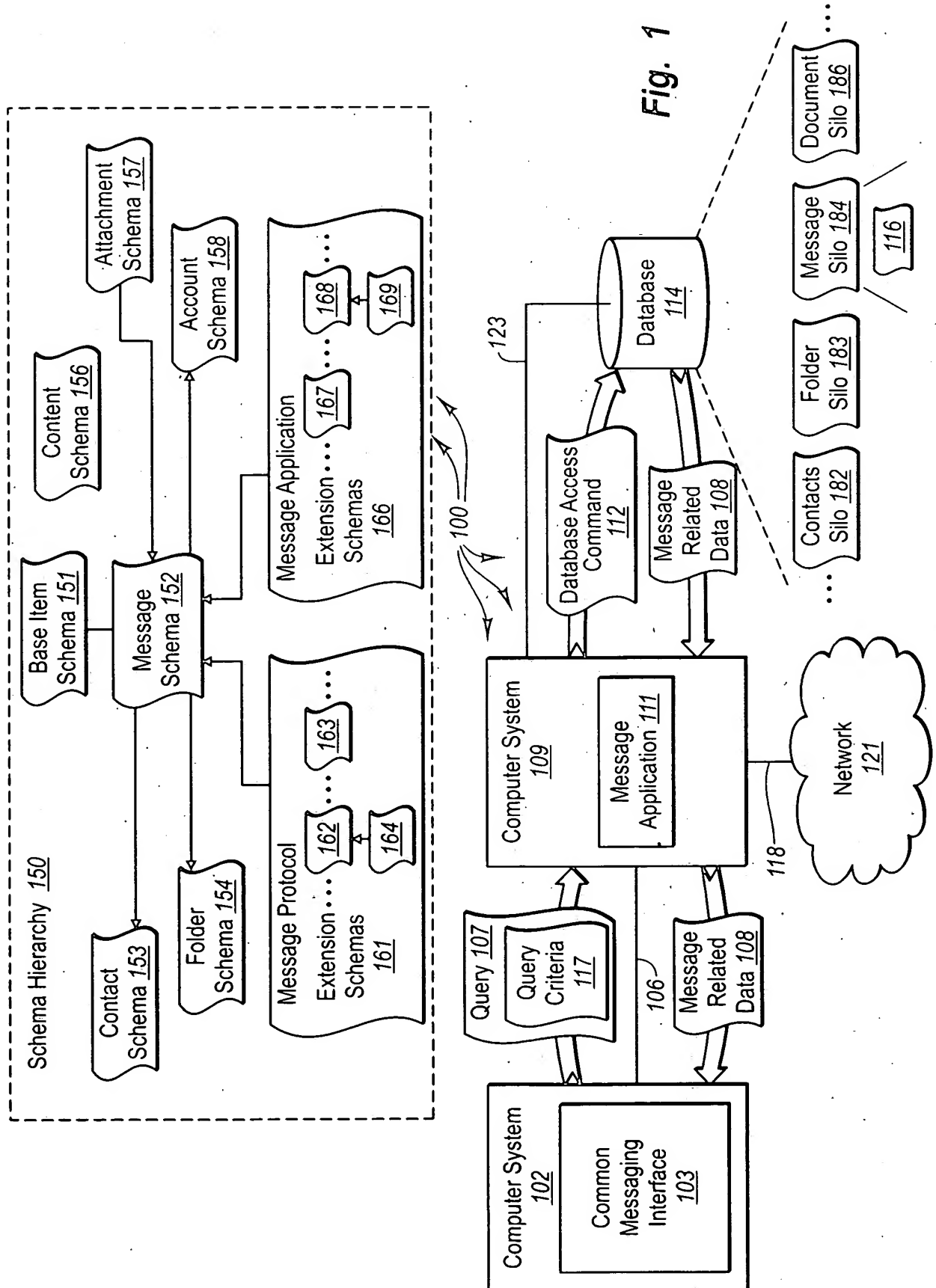Title: ACCESSING DIFFERENT TYPES OF ELECTRONIC MESSAGES
THROUGH A COMMON MESSAGING INTERFACE
Inventors: Gail Borod Giacobbe, et al.
Docket No.: 13768.463

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Fig. 1

Title: ACCESSING DIFFERENT TYPES OF ELECTRONIC MESSAGES
THROUGH A COMMON MESSAGING INTERFACE
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Fig. 2A

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Content Schema

ContentMetadata:ContentProperties [0:1]
IsAttachment: [1:1]
Order:Int32 [0:1]

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Attachment Schema

ContentMetadata:ContentProperties [0:1]
AttachmentState:String [0:1]
IsEncrypted:Boolean [0:1]
IsPinned:Boolean [0:1]
IsRead:Boolean [0:1]
IsTrusted:Boolean [0:1]
LastActionTaken:String [0:1]
LastActionTime:DateTime [0:1]
LastActionType:String [0:1]
Priority:String [0:1]
SendStatus:String [0:1]
Size:Int64 [0:1]
Subject:String [0:1]
TimeReceived:DateTime [0:1]
TimeSent:DateTime [0:1]
Type:String [0:1]
AttachmentMessage:MessageData:NestedElement [0:1]
AttachmentParticipants:ParticipantsData [0:1]
AttachmentSavedFrom:SavedFromData:NestedElement [0:1]
AttachmentSource:AttachmentSourceData:NestedElement [0:1]

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Message.AttachmentMessage

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Message Schema

ContentLocation:String [0:1]
DeferredDeliveryDate:DateTime [0:1]
DeleteAfterSubmit:Boolean [1:1]
DeliveryReceiptRequested:Boolean [1:1]
DownloadState: [0:1]
ExpiryDate:DateTime [0:1]
Importance:Int16 [0:1]
IsEncrypted:Boolean [0:1]
IsRead:Boolean [0:1]
IsSigned:Boolen [0:1]
LastActionTaken:String [0:1]
LastActionTime:DateTime [0:1]
LastActionType:String [0:1]
NormalizedSubject:String [0:1]
Preview:String [0:1]
PrimaryType:String [0:1]
Priority:Int16 [0:1]
ReadReceiptRequested:Boolean [0:1]
SendStatus:String [0:1]
Sensitivity:String [0:1]
Size:Int64 [0:1]
Subject:String [0:1]
SubjectPrefix:String [0:1]
TimeDownloaded:DateTime [0:1]
TimeReceived:DateTime [0:1]
TimeSent:DateTime [0:1]
AttachmentMessage:ClientAttachment
   MessageContents:ContentsData: [0:*]
MessageOriginalDeliveryAccount:
   OriginalDeliveryAccountData:
   NestedElement [0:1]
MessageParticipants:Participants
   Data:Participant [0:1]
MessageSentMessageFolder:
   SentMessageFolderData:String [0:1]

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Base Item Schema

ItemID:GUID [1:1]
Created:DateTime [0:1]
DisplayName:String [0:1]

Content Properties Schema

ContentBase:String [0:1]
ContentDescription:String [0:1]
ContentID:String [0:1]
ContentType:String [0:1]
ContentTypeParameters:String [0:1]
IsMacBinary:Boolean [0:1]
MimeURL:String [0:1]
SuggestedFilename:String [0:1]

Title: ACCESSING DIFFERENT TYPES OF ELECTRONIC MESSAGES
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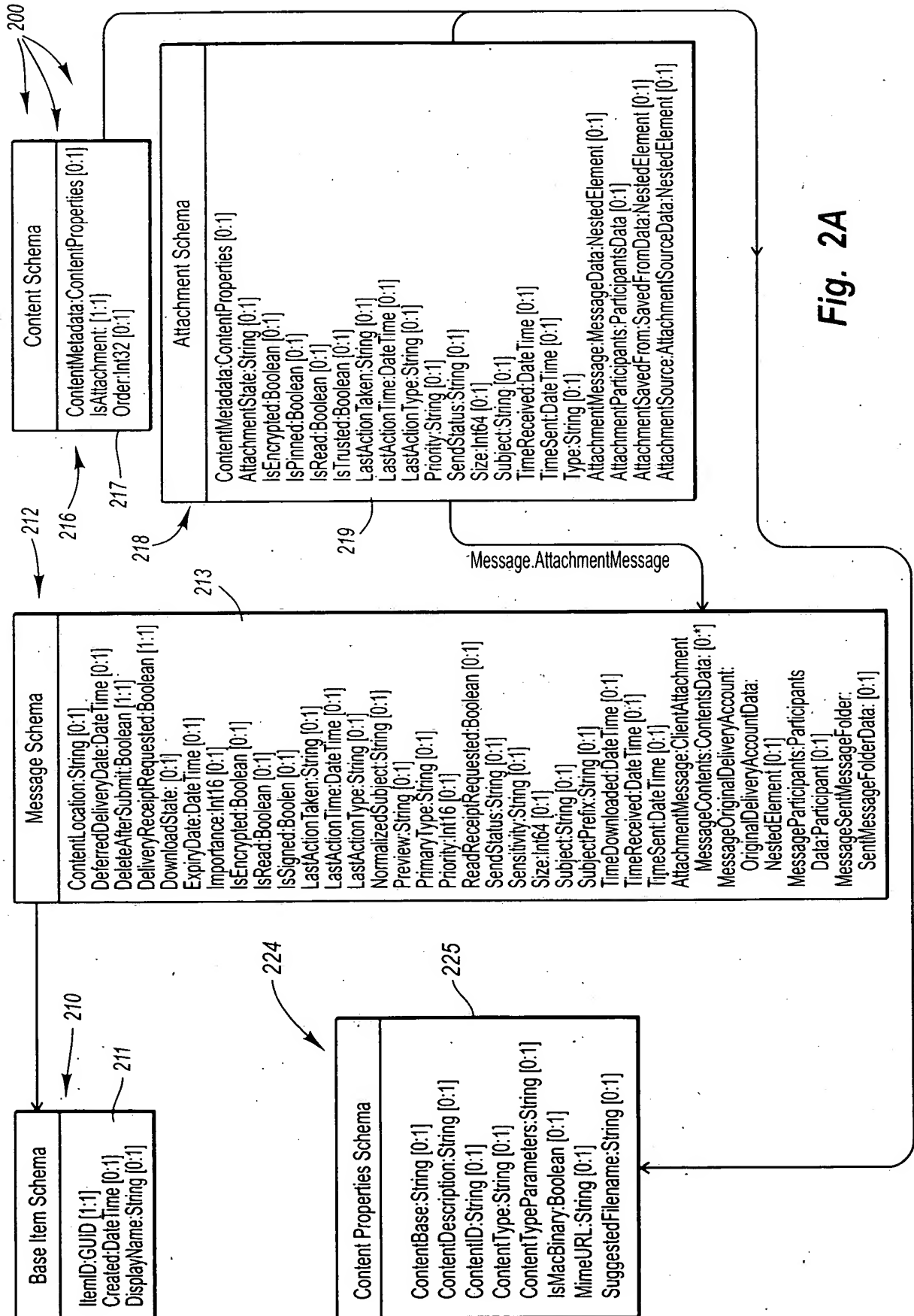Docket No.: 13768.463

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Fig. 2B

Message Application Extension Schemas 250

Second Email Application Schema 255
· · · 256

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Blog Application Schema 251
· · · 252

Email Application Schema 254
ForwardTo:String [0:1]
HasPortalReceiveTimeBoolean [0:1]
HighlightColor: [0:1]
IMAPUID:Int32 [0:1]
IsIMAPDelayedDelete:Boolean [0:1]
IsMarkedForDownload:Boolean [0:1]
IsNewsGroupMessage:Boolean [0:1]
IsReceiptProcessed:Boolean [0:1]
IsReceiptSent:Boolean [0:1]
IsSavedOffline:Boolean [0:1]
RecHeader:String [0:1]
PartialID:String [0:1]
PartialNumber:Int32 [0:1]
PartialTotal:Int32 [0:1]
Refs:String [0:1]
UserCodePageOverride:Int32 [0:1]
WasDeletedOffline:Boolean [0:1]
WatchStatus: [0:1]
XRef:String [0:1]

200

B

Message Protocol Extension Schemas 230

Instant Message Protocol Schema
· · · 232

Fax Protocol Schema 235
· · · 236

Email Protocol Schema 233
ConversationIndex:Binary [0:1]
ConversationTopic:String [0:1]
FlagColor:String [0:1]
FlagReminderDate:DateTime [0:1]
FlagStatus:String [0:1]
FlagTitle:String [0:1]
InternetMessageID:String [0:1]
MimeStream:Binary [0:1]
234

Email NNTP Message 239
ArticleID:Int32 [0:1]
IsArticleExpired:Boolean [0:1]
IsKeepBody:Boolean [0:1]
Lines:Int64 [0:1]
240

Email Pop3 Schema 237
Deleted:Boolean [0:1]
UIDL:String [0:1]
238

Email Community News Schema 241
CommunityStatus: [0:1]
Feedback: [0:*]
PosterID:String [0:1]
PosterType [0:1]
PostType [0:1]
ThreadID:String [0:1]
242

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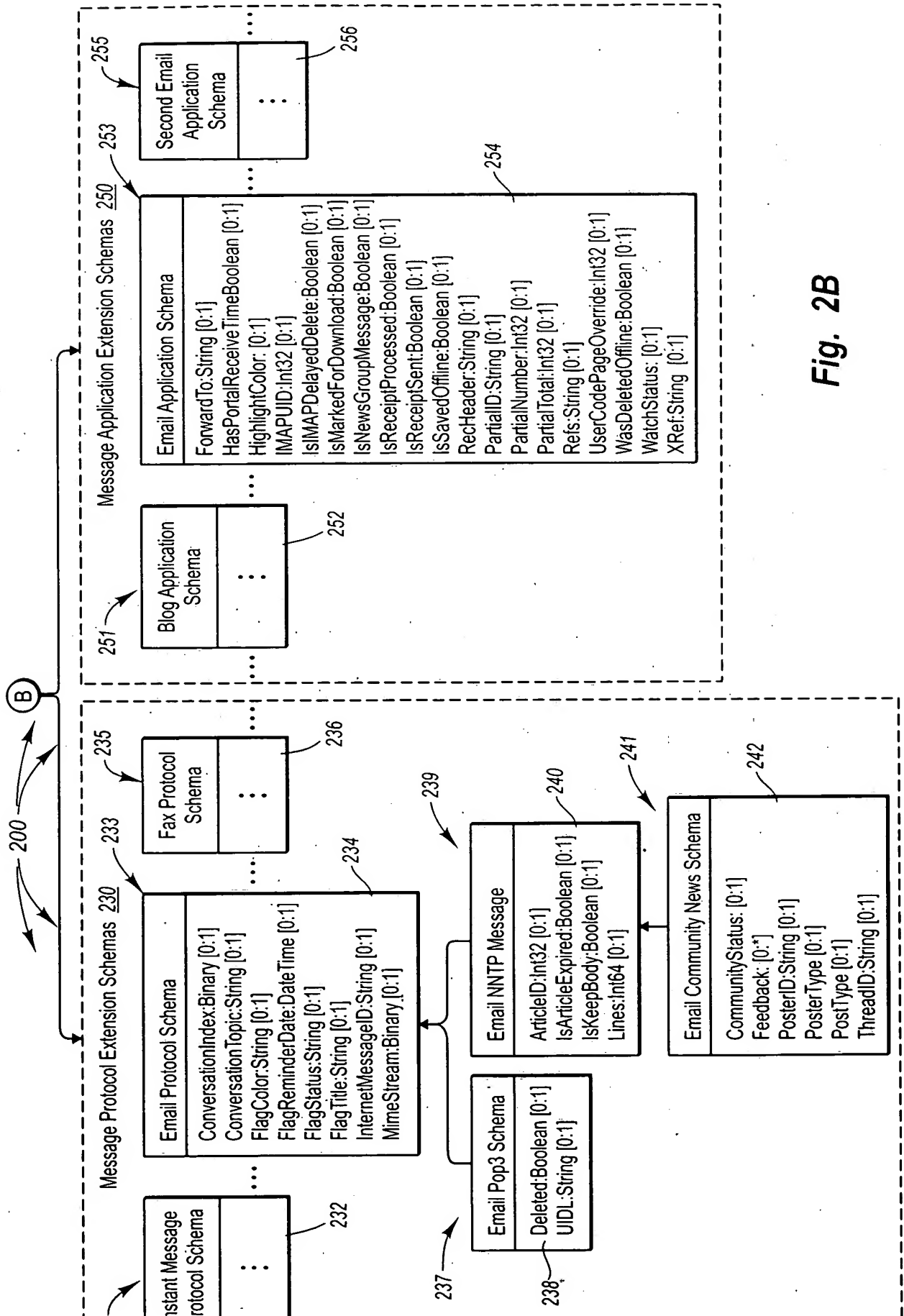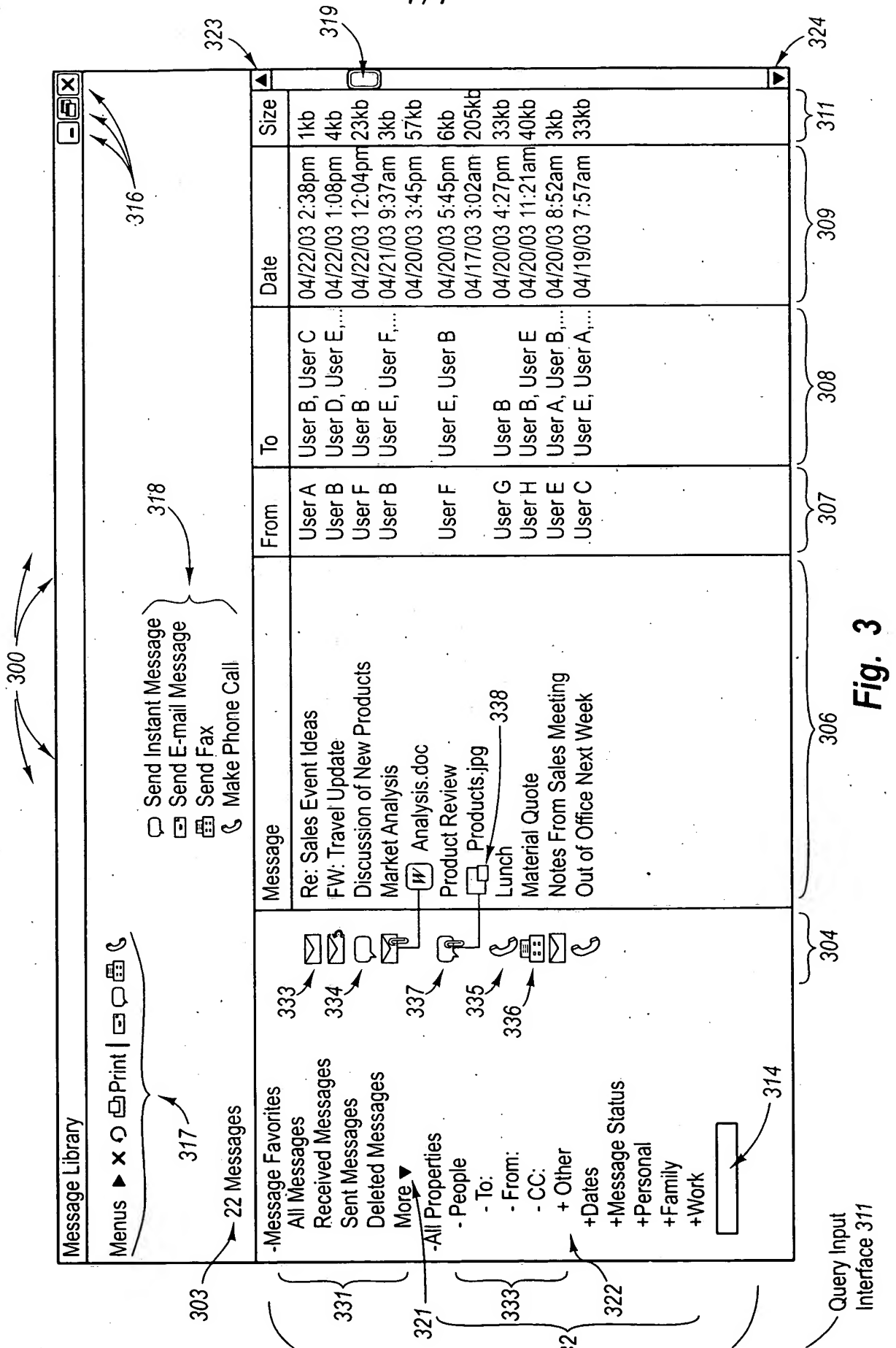Inventors: Gail Borod Giacobbe, et al.
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Message Library

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22 Messages

- Message Favorites
  All Messages
  Received Messages
  Sent Messages
  Deleted Messages
  More ▼
  -All Properties
  - People
    - To:
    - From:
    - CC:
    + Other
  + Dates
  + Message Status
  + Personal
  + Family
  + Work

🖵 Send Instant Message
🖃 Send E-mail Message
🖷 Send Fax
📞 Make Phone Call

	Message	From	To	Date	Size
	Re: Sales Event Ideas	User A	User B, User C	04/22/03 2:38pm	1kb
	FW: Travel Update	User B	User D, User E,...	04/22/03 1:08pm	4kb
	Discussion of New Products	User F	User B	04/22/03 12:04pm	23kb
	Market Analysis	User B	User E, User F,...	04/21/03 9:37am	3kb
	[w] Analysis.doc			04/20/03 3:45pm	57kb
	Product Review	User F	User E, User B	04/20/03 5:45pm	6kb
	Products.jpg 338			04/17/03 3:02am	205kb
	Lunch	User G	User B	04/20/03 4:27pm	33kb
	Material Quote	User H	User B, User E	04/20/03 11:21am	40kb
	Notes From Sales Meeting	User E	User A, User B,...	04/20/03 8:52am	3kb
	Out of Office Next Week	User C	User E, User A,...	04/19/03 7:57am	33kb

Query Input
Interface 311

Fig. 3

Title: ACCESSING DIFFERENT TYPES OF ELECTRONIC MESSAGES
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Message Library

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43 Messages

418
- Send Instant Message
- Send E-mail Message
- Send Fax
- Make Phone Call

403

-Message Favorites
  All Messages
  Received Messages
  Sent Messages
  Deleted Messages
  More ▼
-All Properties
  - People
    - To:
    - From:
    - CC:
    + Other
  +Dates
  +Message Status
  +Personal
  +Family
  +Work

Query Input
Interface 411

User Indicators 431

Message	From	To	Date	Size
User A				
Cancelled Trip to Baltimore	User A	User B; User...	12/05/02 2:38pm	1kb
How's Business	User B	User A	09/18/02 7:57am	21kb
User C				
Give Me A Call	User C	User B	04/08/03 2:22pm	37kb
Travel Update From DC	User C	User A; User...	04/10/03 7:22am	5kb
How Was The Meeting?	User A	User C; User...	05/16/03 10:15am	4kb
User D				
List of Vendors	User D	User B; User...	03/04/03 11:14am	27kb

Fig. 4

Title: ACCESSING DIFFERENT TYPES OF ELECTRONIC MESSAGES
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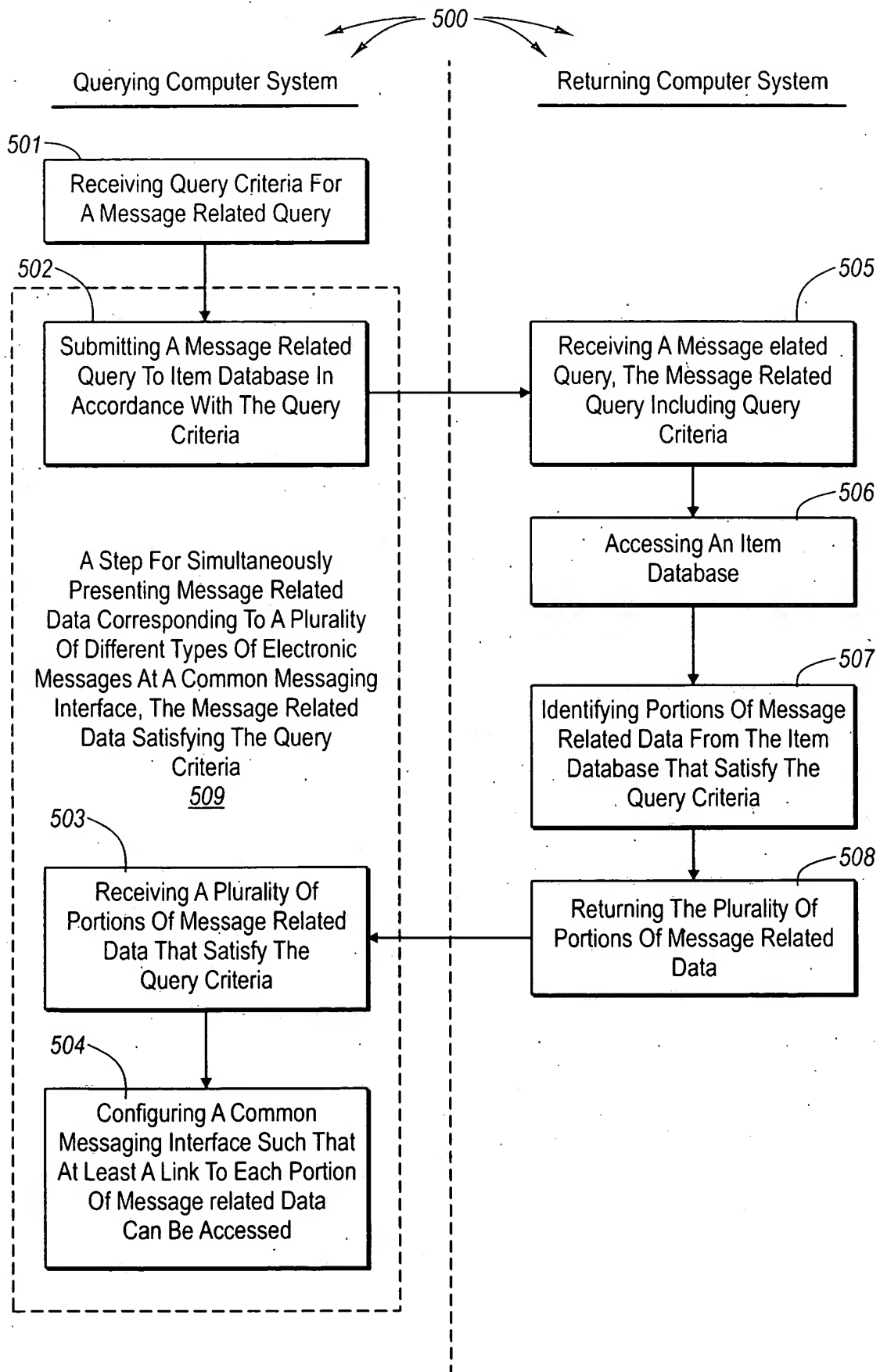Inventors: Gail Borod Giacobbe, et al.
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Querying Computer System

Returning Computer System

501 —
Receiving Query Criteria For
A Message Related Query

502 —

Submitting A Message Related
Query To Item Database In
Accordance With The Query
Criteria

505 —
Receiving A Message elated
Query, The Message Related
Query Including Query
Criteria

506 —
Accessing An Item
Database

A Step For Simultaneously
Presenting Message Related
Data Corresponding To A Plurality
Of Different Types Of Electronic
Messages At A Common Messaging
Interface, The Message Related
Data Satisfying The Query
Criteria
509

507 —
Identifying Portions Of Message
Related Data From The Item
Database That Satisfy The
Query Criteria

503 —

Receiving A Plurality Of
Portions Of Message Related
Data That Satisfy The
Query Criteria

508 —
Returning The Plurality Of
Portions Of Message Related
Data

504 —

Configuring A Common
Messaging Interface Such That
At Least A Link To Each Portion
Of Message related Data
Can Be Accessed

Fig. 5

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Fig. 6